Name – Manav Sharma

Roll - No. - 1911981090

Email – Manavsharma.cse19@chitkarauniversity.edu.in

TASK - 1

Creating a Test Plan involves the following steps:

Product Analysis: In product Analysis we focus on the type of product we are testing.

- → In our case this is a market place website.
- → Our end users are gonna use the website for buying / selling items .
- → Main purpose of our website is to be a digital market .
- → What kind of servers and hardwares we require.

Designing Test Strategy: In test strategy we focus on how, what, when and by whom the features are going to be tested.

Two types of testing.

Manual Testing: where an experienced individual with deep knowledge and end user prospective will test the application, this includes (black box testing and white box testing).

Automation Testing: Where an individual with scripting and framework knowledge will test with help of scripts to implement test cases as fast as possible.

Since we are testing on a marketplace website, we should focus on:

Unit testing: white box testing.

Integration testing: Black box testing.

Api testing which is part of integration testing: Analyzes an application program interface (API) to verify it fulfills its expected functionality, security, performance and reliability.

System Testing.

Defining Objectives: In objectives we mainly discuss why we are testing the software , what are the reasons . What goals we want to accomplish by testing the software .

-> Since our marketplace is an consumer end website, we must check all the functionality before rolling out the application to make the customer experience as smooth as possible.

This includes:

Testing GUI to see if there is no glitch.

Checking all the functionality for smooth customer experience.

Checking the performance standards Like:

Status of item is being updated as soon as transaction is being done.

No lags, crash or bugs causing systems to throttle.

Also one of the main objective will be to achieve the standard benchmark for every functionality .

Establish Test Criteria: In test criteria we mainly focus on the minimum benchmark to be achieved or the test will be suspended.

Suspension Criteria: While testing our marketplace and running tests, if we get an error or only 50 percent of the test cases pass. Than we have to suspend the testing and let developers fix the bugs.

Exit Criteria: While testing our marketplace and running tests, if we see that our 80 percent of the test cases are passed than according to governing standards the functionality is ok for public use. Although we should always try to achieve 100 percent test cases.

Planning Resource Allocation: In this we specify the requirements of resources required for successfully testing the functionalities.

This includes:

Number of team members (Depends upon the type of Functionalities we are checking).

Hardwares and tools: Mainly specifies the sandbox environments we require while testing and tools like Selenium to automate the process.

Planning Setup of Test Environment: In this we manily focus on determining on what kind of devices are our applications gonna be used on .

- → Since our marketplace website is gonna be available on a real browser with all the updates and functionality, it is important as an tester to test our website on real devices.
- → This will give us an end user prospective on how our users gonna be experience our website and how we as a provider want them to use our product. It is an really important part of testing.

Determine test schedule and estimation: In this we focus on distributing the tasks in smaller segments and finishing the tasks before the deadlines.

→ Since our marketplace needs to be roll out in 6 months , we have to distribute the tasks in segments where each required functionality can be tested in required time and with efficiency .

Key factors: Employee availability.

Number of working days.

Number of functionality to be tested .

Risk factor: Deadlines, affects on customer experience etc.

Establish Test Deliverables: In this we basically refers to the list of deliverables required before , during and after the testing have been done .

This includes:

Before Testing:

Test plan: How we are gonna implement the test plan for our marketplace.

Test design: How the test is designed to check the functionalities in order.

During Testing:

Test Scripts: what scripts are used for the purpose of the testing.

Simulators and emulators: What kind of devices were used for testing example sandboxes etc.

Test Data: This includes the data accumulated during the testing phase.

Error and execution logs: The logs and data generated for errors during the testing.

After Testing:

Test Results: This includes the results of the tests which were conducted.

Defect Reports: This includes list / bugs of the defected functionalities.

Release Notes: This basically includes the documentation which is released with an new update which basically includes the data of what was updated and what new features were added / removed and what bugs were fixed.